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(71) Applicant(s)

Richard Taylor
24 Crestwood Gardens, Goldenash, NORTHAMPTON,
NN3 8TZ, United Kingdom

(72) Inventor(s)

Richard Taylor

(74) Agent and/or Address for Service

Richard Taylor
24 Crestwood Gardens, Goldenash, NORTHAMPTON,
NN3 8TZ, United Kingdom

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(52) UK CL (Edition O)

G4A ADT

(56) Documents Cited

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US 4839745 A US 4530048 A US 4236152 A
Byte, Vol 19, No.4, April 1994, McGraw-Hill, page 254
Dialog record 01723858 of PC User, No. 242, Sept. 7
1994, page 88 Dialog record 01695637 of Computer
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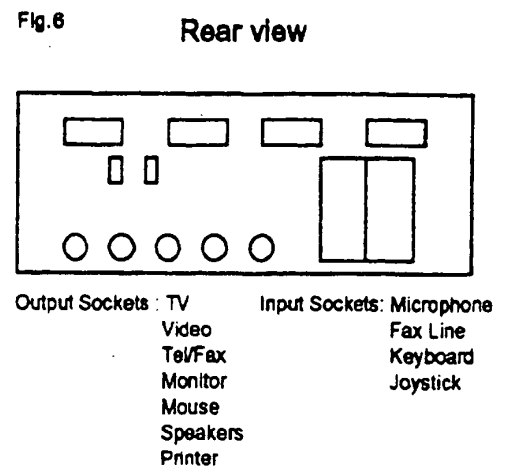
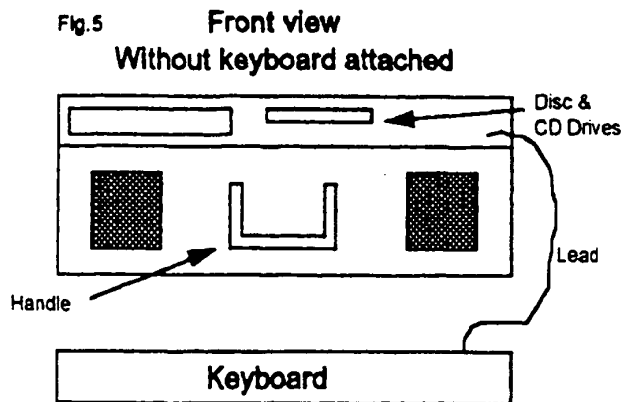
(58) Field of Search

UK CL (Edition N) G4A ADT AKBX AKS ASX
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ONLINE : WPI, INSPEC, COMPUTER DATABASE

(54) Multimedia computer

(57) The computer has a removable flush-fitting keyboard which can be used attached or detached from the computer. It can be released in order to use the disc drive or C D Rom. Output to V C R and television allows recording on video and gives a larger screen display than a conventional monitor.

A modem and phone output connection provide Internet network information, E-mail and FAX. An additional input provides a link with any fax machine to scan documents and use the fax as a printer for the computer.



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Fig. 1

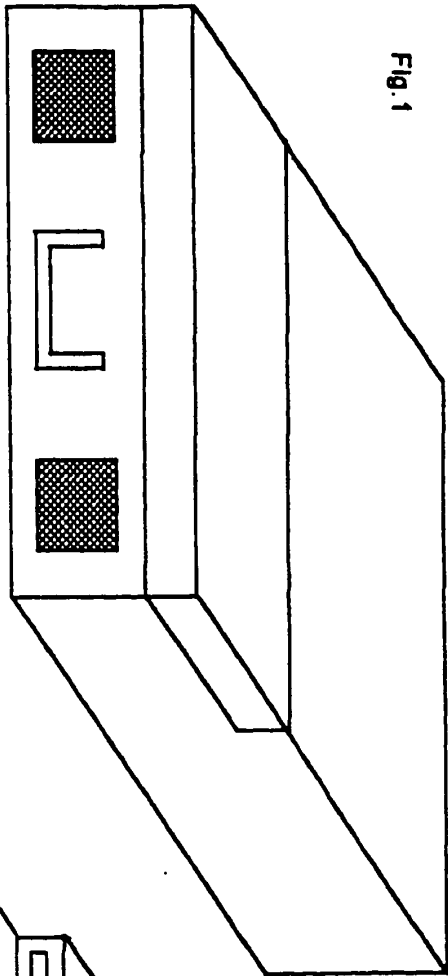


Fig. 2

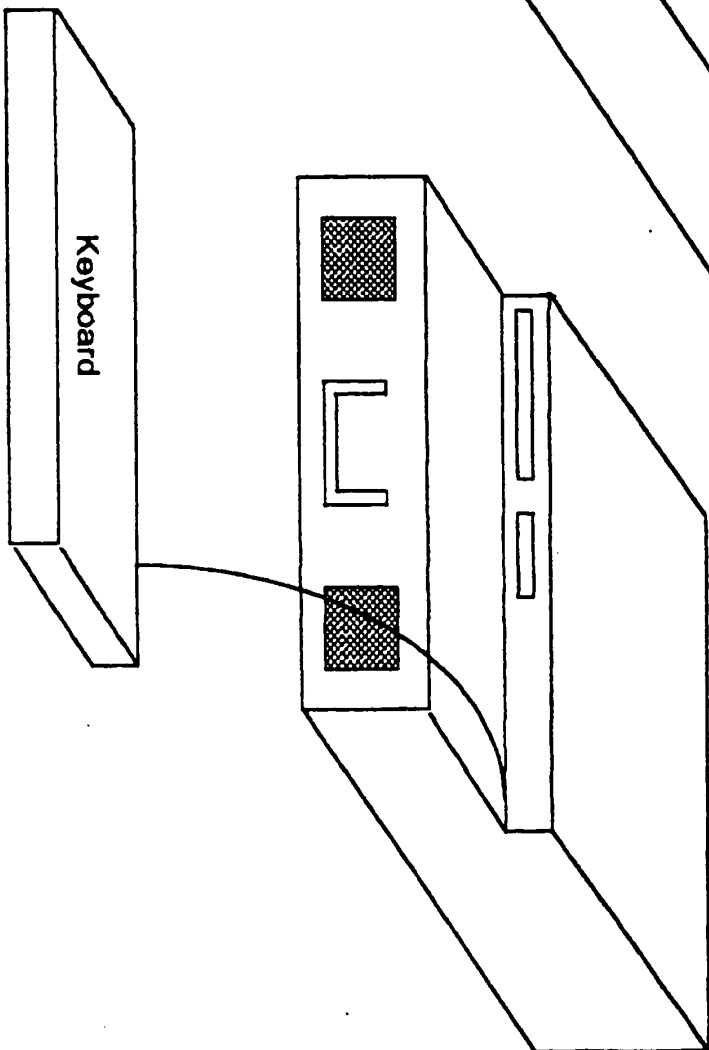


Fig.3 Top view

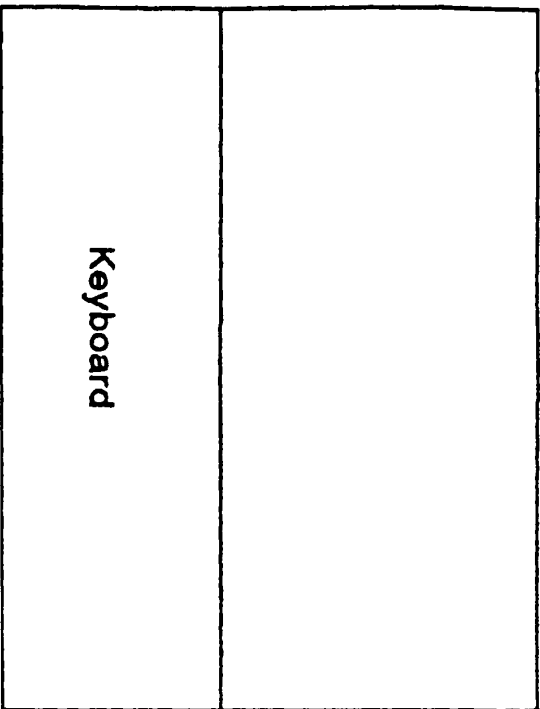


Fig.5 Front view
Without keyboard attached

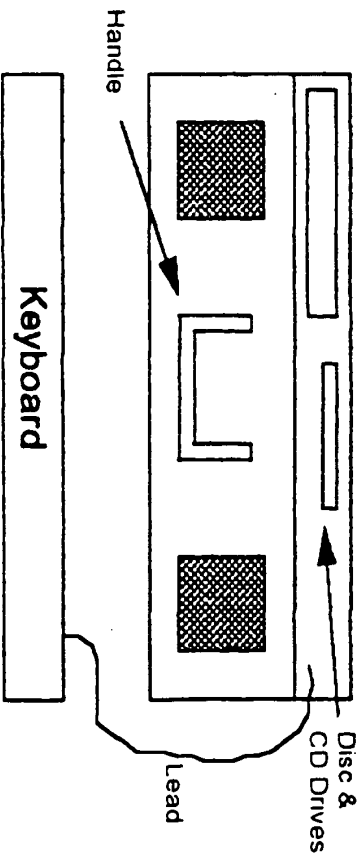


Fig.6 Rear view

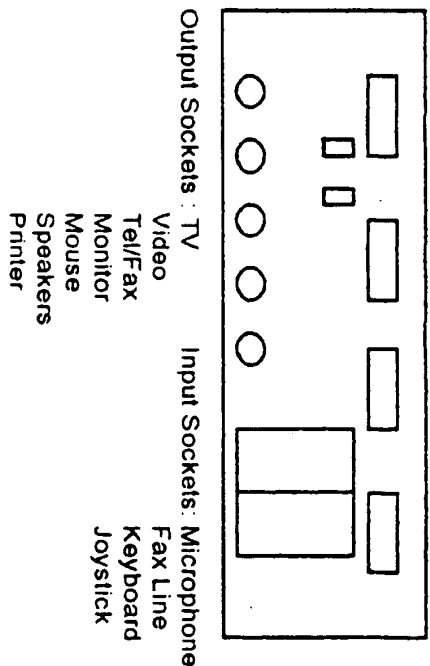
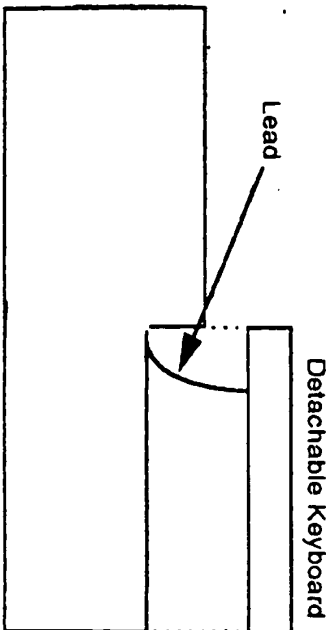


Fig.4 Side view



This invention relates to multimedia computer Hard ware.

Computers have served the business and more recently the home environment for work and recreation use . Trends towards the use of multimedia are providing tremendous educational potential .

To utilize this technology at the home proves expensive to explore the full potential. It requires additional hard ware and soft ware products which are expensive.

The present invention provides a more cost effective way to EMail-FAX Network Information all in one unit .To be able to visually record and play back on a V C R all information displayed and logged into the computer and then be able to display the information in a large screen format without the cost of a conventional monitor has many advantages.It therefore uses many house -hold items to interconnect by leads with out the need for additional hardware and software .

One of the major problems with computers (Even having reduced the cost by not requiring a separate monitor by making use of an existing television and video) is a lack of understanding computer technology by the majority of home users.By linking to a video, computer manufactures can provide a training video indicating what should be carried out on the screen.The new owner would need to copy what they have seen on the screen rather than having to read a complex manual .Most software houses are providing bulletin boards to give advise on software problems .Using the systems means that once connected to network information it can be reached and then stored on video.

The invention can be viewed by the accompanying drawings.

FIG1: Computer with keyboard its position covering the disc drive and C D ROM

FIG2: On releasing the keyboard the C D ROM and disc drive exposed.

FIG3:Top views of computer with keyboard secured.

FIG4:Side view keyboard release .

FIG5:Front view with keyboard released and C D Rom exposed.

FIG 6: Rear view with input and output sockets listed.

Referring to the drawing the computer comprises of Fig 1 a container measuring 450 by 415 by 150 mm high at the rear with a recess at the front of the computer some 60 mm deep which would secure and lock in a key board to make the unit easily transportable . The key board could be used in position Fig: 1 and 3 or released and being connected by flex cord could be located some 400-500 mm away from the main unit. As a protection against damage , on releasing the key board Fig: 2 ,4 and 5 access is gained to a C D Rom Disc drive along with one 3 and a half inch disc drive .

To the rear of the computer Fig :6 the normal input and output sockets would be available with 3 additional connectors
(1)A connector which allows connection to a telephone line via an internal Modem Card
(2) A socket that would allow a telephone output connector from any fax machine allowing the computer to use the fax to act as a printer using its thermal paper or plain paper whichever facility it has .In addition with this connection the fax machine would act as a scanner allowing images on A4 sheets on to the hard disc

(3) A scart/RF output feed by internal video card from the computer that would feed scart/RF input to V C R utilizing the A V Channel to a mono /stereo video recorder .The scart connection using extra circurity in the video to enhance the image .This could be recorded and or displayed on a household Television from the smallest to the largest screen Via the V C R output scart/RF socket being feed into the television input scart/RF socket.

CLAIMS

1) The multimedia computer comprises of a 450 by 415 by 150 mm container with a detachable keyboard fitting flush to the front of the unit (although varying sizes will be made available) .Internal Hard disc and ram will vary according to the many options available and demanded in the market place .It would not be dependent on the use a separate monitor or separate speakers for multimedia use.The computer would have a video card and modems installed.

2) The computer would be normally be sold without a monitor as in claim 1 (although one could be connected) The visual and audio output for the unit would be by a scart/R F connector which would connect to a video recorder and then to a television, or direct to a stand alone television of any screen size.

3)Using the video connection as in claim 2 allows for all information processed by the computer to be recorded both sound and vision from on line to business programs to games and multimedia information .

4) The internal modem as in claim 1 and linked connector to a telephone sockets gives the computer access to on line information E-Mail .Fax and network services such as Internet.

5)Internal CD Rom gives access to Multimedia Information with an internal video card fitted (as in claim 1) Audio and Film Compact Discs can be heard at best through a Nicam TV and Video. All of which can be recorded on video tape.

6) A three and a half inch Disc drive is installed to input new software and back up programs .Sound an vision from a three and a half inch disc could be recorded on video.

7) The computer has a separate input socket that would connect with any fax machines output telephone line .This would allow the computer to be able to :-

A) Use the scanner from the fax to input to the hard disc any A4 page of information.

B) Use any existing fax machine as a printer for the computer (weather it be a thermal or plain paper)

8) The computer as described with reference to figures 1-6 of the accompanying drawing.

Amendments to the claims have been filed as follows

- 1) The multimedia computer comprises of a 450 by 415 by 150 mm container with a detachable keyboard fitting flush to the front of the unit (although varying sizes will be made available) .Internal Hard disc and ram will vary according to the many options available and demanded in the market place .It would not be dependent on the use a separate monitor or separate speakers for multimedia use.The computer would have a video card and modems installed.**
- 2) The computer would be normally be sold without a monitor as in claim 1 (although one could be connected) The visual and audio output for the unit would be by a scart/R F connector which would connect to a video recorder and then to a television, or direct to a stand alone television of any screen size,in order to produce sound and vision.**
- 3)Using the video connection as in claim 2 allows for all information processed by the computer to be recorded on video tape both sound and vision from on line network to business programs, games and multimedia information .**
- 4)The connection by scart socket as in claim 2 between the computer and video recorder provides access within the computer hardware to any information recorded on video tape.**
- 5) The internal modem as in claim 1 and linked connector to a telephone output socket gives the computer access to on line information E-Mail .Fax and network services such as Internet. This information can be recorded on video tape for future use.**
- 6)Internal CD Rom gives access to Multimedia Information with an internal video card fitted (as in claim 1) Audio and Film Compact Discs can be seen and heard at best through Nicam TV and Video. All of which can be recorded on video tape.**
- 7) A 3 and a half inch Disc drive is installed to input new software and back up programs.Sound and vision from a three and a half inch disc could be recorded on video& vice versa.**
- 8) The computer has a separate input socket that would connect with any fax machines output telephone line .This would allow the computer to be able to :-**
 - A) Use the scanner from the fax to input to the hard disc any A4 page of information.**
 - B) Use any existing fax machine as a printer for the computer (weather it be a thermal or plain paper)**
- 9) The computer as described with reference to figures 1-6 of the accompanying drawing.**



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Claims searched: 1-5,8

Examiner: Geoff Western
Date of search: 11 May 1995

Patents Act 1977
Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:
UK Cl (Ed.N): G4A (ADT, AKBX, AKS, ASX)
Int Cl (Ed.6): G06F (1/16, 3/06, 3/153)
Other: On-line : WPI, INSPEC, COMPUTER DATABASE

Documents considered to be relevant:

Category	Identity of document and relevant passage	Relevant to claims
Y	GB-2143658-A (STC) See whole document	1-3
Y	EP-0387011-A2 (AGILIS) See whole document	1
Y	US-4903221-A (KRENZ) See whole document	1
Y	US-4839745-A (TINDALL) N.b columns 1-7, Figs 1,2	1-3
Y	US-4530048-A (PROPER) N.b columns 1-5, Fig 1	1-3
Y	US-4236152-A (MASUZAWA) N.b columns 1-2, Fig 1	1,2
Y	Byte, Vol 19, No 4, April 1994, McGraw-Hill, page 254	1,4,5
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X,Y	Dialog record 01695637 of Computer Shopper, Vol 14, No 9, pages 356-357	1,4,5

X Document indicating lack of novelty or inventive step
Y Document indicating lack of inventive step if combined with one or more other documents of same category.

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A Document indicating technological background and/or state of the art.
P Document published on or after the declared priority date but before the filing date of this invention.
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